

EPODOC / EPO

PN - JP11123999 A 19990511  
 PD - 1999-05-11  
 PR - JP19970289962 19971022  
 OPD - 1997-10-22

TI - VEHICLE AIR BAG DOOR STRUCTURE

AB - PROBLEM TO BE SOLVED: To provide a vehicle air bag door structure capable of stably opening a hinge at the inflation opening part of an air bag, regulating an opening position at a skin, and stably inflating the air bag without skin embrittlement under allow temperature condition. SOLUTION: This vehicle air bag door structure is formed so that an air bag door 23 may not be recognized from the surface side of an instrument panel 21 by forming an opening part 22a for air bag inflation at a resin core material 22, forming the air bag door 23 so as to close the opening part 22a, fixing one edge serving as the hinge part 24 of the air bag door 23 near a rib part 22b formed at the opening part 22a so as to close the opening part 22a, allowing the other edge serving as a cleavage part to abut to the circumference of the opening part 22a, forming a cushion layer 26 crossing between the surface of the core material 22 and the surface of the air bag door 23, forming a skin 25 with TPE and covering the cushion layer 26 with a TPE skin.

IN - SAITO KAZUHIRO

PA - KANSEI KK

IC - B60R21/20; B32B5/18; B60K37/00

TO WPI / DEFWENT

TI - Door structure for air bag apparatus in vehicle - uses thermoplastic elastomer skin to cover cushion layer provided ranging over surfaces of core material and door of air bag

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PA - (KANS-N) KANSEI CORP

IC - B32B5/18 ;B60K37/00 ;B60R21/20

AB - JP11123999 NOVELTY - One edge serving as a hinge (24) of a door (23) to close an opening (22a) in the resin made core material (22) of an air bag is fixed near a rib (22b) while the other edges serving as a cleavage part contact the circumference of the opening. A cushion layer (26) provided ranging over the surfaces of the core material and the door is covered with a surface skin (25) of thermoplastic elastomer (TPE).

- DETAILED DESCRIPTION - The main body of the air bag equipment containing the air bag is arranged at the back side of an instrument panel (21). The air bag is made to bulge through the opening. The surface skin is [REDACTED] from thermoplastic elastomer (TPE) so that the door of the air bag cannot be confirmed from the surface side of the instrument panel.
- USE - Used with air bag apparatus in vehicle.
- ADVANTAGE - There is neither a crack nor a scattering at the air bag door due to the surface skin cleavage part deterioration under a low temperature environment since the TPE of the surface skin has good resistance against low temperature embrittlement compared with PVC surface skin. There is no deterioration of the air bag door since the urethane foaming layer or the cushion layer does not attack the surface skin layer. The airbag door opens with stability in connection with the bulging of the airbag.
- DESCRIPTION OF DRAWING - The drawing perspective and sectional views of door structure. (21) Instrument panel; (22) Core material; (22a) Opening; (22b) Rib; (23) Door; (24) Hinge; (25) Surface skin; and (26) Cushion layer.
- (Dwg.1/2)

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EPAI / JPO

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TI - VEHICLE AIR BAG DOOR STRUCTURE  
AB - PROBLEM TO BE SOLVED: To provide a vehicle air bag door structure capable of stably opening a hinge at the inflation opening part of an air bag, regulating an opening position at a skin, and stably inflating the air bag without skin embrittlement under allow temperature condition.  
- SOLUTION: This vehicle air bag door structure is formed so that an air bag door 23 may not be recognized from the surface side of an instrument panel 21 by forming an opening part 22a for air bag inflation at a resin core material 22, forming the air bag door 23 so as to close the opening part 22a, fixing one edge serving as the hinge part 24 of the air bag door 23 near a rib part 22b formed at the opening part 22a so as to close the opening part 22a, allowing the other edge serving as a cleavage part to abut to the circumference of the opening part 22a, forming a cushion layer 26 crossing between the surface of the core material 22 and the surface of the air bag door 23, forming a skin 25 with TPE and covering the cushion layer 26 with a TPE skin.  
I - B60R21/20 ;B32B5/18 ;B60K37/00

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